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F 341 503

Federal - State Cooperative Snow Surveys and Water Supply Forecasts

for

WYOMING



STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF

Mar. 1, 1954

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate Rivef District Office, listed below:

Meteorologist in Charge.......Yellowstone River
Weather Bureau Airport Station and tributaries
Box 1338
Billings, Montana

State of Wyoming

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Report Prepared by

George W. Peak Snow Survey Leader

Issued

March 9, 1954

Soil Conservation Service 345 East 2nd Street P. O. Box 699 Casper, Wyoming

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PRELIMINARY WATER SUPPLY OUTLOOK

FOR

WYOMING

March 1, 1954

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The water supply outlook for Wyoming ranges from normal in the northwestern part of the state, to poor in the southern regions.

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The snow pack in Yellowstone Park, Snake River Basin above the state line, Wind River Basin, and the Shoshone River watershed is close to normal, but the depth of the snow water decreases rapidly at lower elevations, and will reduce the seasonal flow this summer.

Snow cover on the Big Horns is 142% of normal on the north slope, but decreases rapidly to 60% in the central and southern * portions.

The North Laramie Mountains, North Platte Watershed, and * * Laramie River Basin are considerably below normal. There has * been very little increase in the snow pack on most snow courses * and on some, there has been none. The seriousness of this situ-* ation will be aggravated by the deficit in soil moisture last * * fall. The entire state was below normal in soil moisture as winter * came on, and though there has been some recharge from winter melt, * this soil deficit will reduce summer streamflow.

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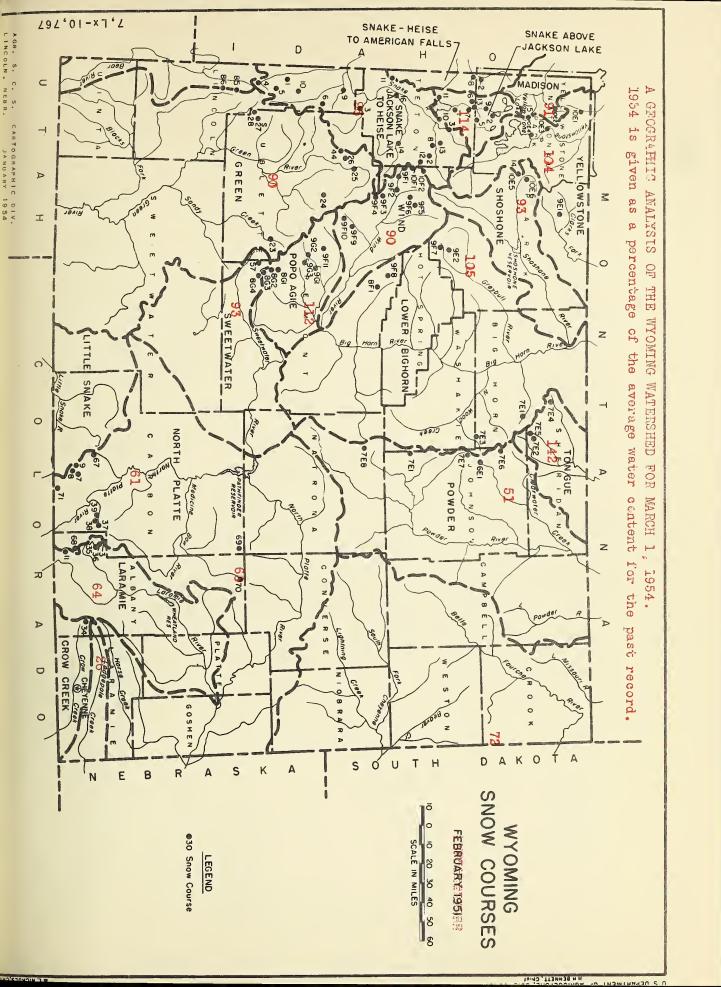
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COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

Summary of Snow S					
BASIN	: NO. OF : COURSES	: YEARS :	1954	SNOW WATER AS PERCENT	
	: AVERAGED	: RECORD :	1953	: 1952	: Average
SNAKE RIVER BASIN ABOVE JACKS	SON LAKE -	2-35	97	90	114
JACKSON LAKE TO HEISE	18	4-18	102	84	96
UPPER YELLOWSTONE IN YELLOWS	TONE PARK	2-17	102	83	104
MADISON RIVER IN YELLOWSTONE	PARK 2	13-20	104	63	91
LOWER YELLOWS TO NE -SHOSHONE RI	EVER 2	5-11	, 93	81	93
LOWER YELLOWSTONE-WIND RIVER	14	4-17	97	95	90
LOWER YELLOWSTONE-POPO AGIE I	RIVER 6	5 - 17	120	81	112
LOWER YELLOWSTONE-OWL CREEK	2	5		esc dans	des exts
LOWER YELLOWSTONE-GREYBULL RI	IVER 2	2 - 5	105	163	105
LOWER YELLOWSTONE-TONGUE RIVE	ER 3	3-4	127	140	142
LOWER YELLOWSTONE-CLEAR CREEK	ON THE P	OWDER RIVER 3	 58	53	51
LOWER YELLOWSTONE-CRAZY WOMEN	V CREEK ON	THE POWDER	RIVER 90	639 Cab	~-
NORTH PLATTE ABOVE SEMINOE RE	ESERVOIR 14	<u> </u>	68	7171	61
NORTH PLATTE-SWEETWATER RIVER	3	5-17	118	75	93
LARAMIE RIVER BASIN	9	5-17	60	47	64
POLE MOUNTAIN	1	17	20	18	26
NORTH LARAMIE MOUNTAINS	2	4-5	49	67	60
CHEYENNE RIVER	1	10	56	49	72
UPPER COLORADO-GREEN RIVER	10	2-18	98	86	90

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STATUS OF RESERVOIR STORAGE

WYOMING AND SOUTH DAKOTA

March 1, 1954

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BASIN		USEABLE	ACTIV	E STOR	AGE -	1000s	ACRE FEET
and		CAPACITY					10-Yr.Av
STREAM	RESERVOIR	1000s AF	1954	1953	1952	1951	1942-51
Snake River	Jackson	847	373	750	594	596	515
North Platte River North Platte River North Platte River North Platte River North Platte River North Platte River	Minatare Seminoe Pathfinder Alcova* Guernsey Lake Alice	58 957 1011 190 40 14	27 190 841 166 9.7 10.3	22 576 799 155 43 2•8	29 606 806 159 33 0	26 527 871 170 37	26* 445 569 109 39.5
Laramie River	Wheatland	95	10.4	26	54	39	39
Belle Fourche	Belle Fourche	185	109	52	88	81	116
Shoshone River	Buffalo Bill	440	153	151	237	296	297
Wind River Wind River Wind River	Boysen Pilot Butte Bull Lake	758 31.6 152	362 12 77	541 12.4 61	122 9.3 67	8.4	12.7 62
Cheyenne River Cheyenne River Cheyenne River Grand River Green River	Angostura Deerfield Keyhole Shadehill Big Sandy	160* 15.1 190 84	31 15.4 8.7 82	109 13.5 8.3 78	112	28	era des
green graen.	prk paud		٥٩٧				

* Total Capacity

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VALLEY PRECIPITATION In Percent of Normal

Basin	SeptDec.	Jan.	Febr.
Wind River	58	88	49
Shoshone River	88	241	112
Big Horn River	72	51	48
Powder River	62	102	79
North Platte	57	63	50
Laramie River	35	42	40

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WYOMING SNOW SURVEYS, MARCH 1, 1954

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DRAINAGE BASIN and			Date of	Snow	Water Content	Water	Conten	t (In.)	Year: of
SNOW COURSE	State	Elev.	Survey		(In.)	1953	1952	Aver.	Record
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SNAKE RIVER BASIN ABOV	E JACKSO	N LAKE							
Arizona	Wyo.	6850	2/27	57	17.5	18.7	20.0	15.2	35
Astor Creek	Wyo.	7700	2/26	90	31.0	30.7	34.5	25.3	35
Base Camp*	Wyo.	6900	2/27	60	18.8	20.5	19.2	19.6	3
Coulter Creek	Wyo.	7600	2/26	73	25.2	22.0	23.8	18.9	35
Glade Creek	Wyo.	7200	2/26	62	19.9	20.6	23.5	19.6	35
Huckleberry Divide	Wyo.	7300	2/27 2/26	55 116	17.0 41.2	19.5 39.8	21.0 45.8	16.7 35.4	35 35
Lewis Lake Divide Moran	Wyo.	7900 6800	2/27	42	13.0	12.4	12.8	10.3	35
Moran Bay	Wyo.	6800	2/27	61	19.4	22.8	20.3	17.2	35
Snake River Station	Wyo.	6780	2/26	60	18.9	20.0	20.3	17.1	35
Thumb Divide	Wyo.	7900	2/26	73	22.5	N.R.	25.5	23.2	2
TAGEGON TAKE MO INTO									
JACKSON LAKE TO HEISE									
Afton Ranger Station	Wyo.	6200	2/26	14	3.8	3.2	7.3	4.8	18
Blackrock	Wyo.	8600	2/27	64	19.3	18.1	19.8	18.4	18
Blind Bull Summit	Wyo.	8750	3/4	83	28.4	25.0	29.2	29.4	6
Bryan Flat	Wyo.	6250	2/26	35	9.4	9.6	13.4	9.4	18
CCC Camp	Wyo.	7500	2/25	32	9.5	9.4	13.5	10.2	18
Deadman Ranch	Wyo.	6534	3/4	34	10.4	11.5	11.9	10.1	18
East Rim Divide	Wyo.	7950	2/26	36	8.9	11.4	12.0	10.4	14
Four Mile Meadows Greys Boundary	Wyo.	7770 5800	2/27 2/27	Ц2 33	11.4	11.2	13.4	11.2	18 18
Gros Ventre Summit	Wyo.	8750	2/25	41	8.0	9.2	10.9	11.5	6
Grover Park Divide	Wyo.	7500	2/26	29	7.9	10.2	14.0	10.2	18
Poison Meadows	Wyo.	8500	3/2	7Ś	25.3	20.1	25.8	24.6	6
Salt River Summit	Wyo.	7900	2/25	39	11.8	12.2	15.9	14.4	6
Snow King Mountain	Wyo.	7600	2/26	39	10.4	9.7	11.7	10.4	4
Teton Pass No. 2	Wyo.	8500	2/25	82	28.6	30.2	38.9	32.5	9
Togwotee Pass	Wyo.	9600	2/27	84	26.3	24.4	25.9	23.7	18
Turpin Meadows Yellow Jacket	Wyo.	6930 7675	2/27	39 28	10.8 6.5	11.1	10.2 5.7	9.1 5.8	18 14
Tellow Jacket	Wyo.	1015	3/4	20	0.5	9 •4	201	9,0	14
UPPER YELLOWSTONE IN Y	ELLOWSTO	VE PARK	3						
			2/2	1 -		7.0	3/ 3	72 /	0
Canyon	Wyo.	7750	3/1	47	15.1	13.9	16.2	13.6	8
Cooke City	Mont.	7400	2/28	33	9.8	8.5	9.3	6.8	17 15
Crevice Mountain Lake Camp	Mont. Wyo.	8400 7850	2/28 3/1	32 38	7.4	7.9 8.8	11.7 12.8	8.3 9.1	17
Lupine Creek	Wyo.	7300	3/1	38	10.4	8.7	13.7	8.5	15
Sylvan Pass	Wyo.	7100	3/1	46	11.5	13.1	14.5	13.3	11
Thumb Divide	Wyo.	7900	2/26	73	22.5	N.R.	25.5	23.2	2
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WYOMING SNOW SURVEYS, MARCH 1, 1954

SNOW COVER MEASUREMENTS										
DRAINAGE BASIN			Date	1951 Snow	Water		Past	Record	Year	
and			of		Content	Water	Conten	t (In.)	of	
SNOW COURSE	State	Elev.	Survey		(In.)	1953	1952	Aver.	Recor	
MADISON RIVER IN YEL	LOWSTONE	PARK								
			,							
Norris Basin	Wyo.	7500	3/1	34	9.8			8.1	13	
West Yellowstone	Mont.	6700	3/1	36	10.4	10.0	16.5	10.3	20	
LOWER YELLOWSTONE - S	SHOSHONE I	RIVER								
East Entrance	Wyo.	7000	3/1	36	10.8	10.9	13.0	10.7	5	
Sylvan Pass	Wyo.	7100	3/1	46	11.5	13.1	14.5	13.3	ıí	
LOWER YELLOWSTONE - 1	ATMD RIVE	R								
FOWER TEPTOWOTOME - /	10 T1415 ICT A T1									
Brooks Lake	Wyo.	9200	2/24	65	22.0	22.4	25.1	20.7	17	
Burroughs Creek	Wyo.	8800	2/25	42	13.2	15.2	10.5	15.6	5	
Dinwoody Dry Creek	Wyo. Wyo.	10000 9500	2/23 2/23	37 20	9.5 4.5	11.8	12.2	13.3	5	
DuNoir	Wyo.	8750	2/24	26	7.2	7.4	6.6	9.1	5 5 5 13	
Geyser Creek	Wyo.	8500	2/25	24	6.9	7.2	6.8	8.8	5	
Hobbs Park	Wyo.	10000	2/28	54	17.0	13.9	19.7	18.6	5 5 5	
Little Warm Mosquito R.S.	Wyo. Wyo.	9500 9500	2/25 2/28	50 30	14.9 7.7	14.8 7.0	15.0 7.9	18.3 7.3	5 10	
St. Lawrence R. S.	Wyo.	9000	2/27	23	5.5	6.0	8.1	6.2	10	
Sheridan R.S.	Wyo.	7500	2/24	27	7.6	8.2	7.3	6.6	17	
T Cross Ranch	Wyo.	8000	2/26	32	7.2	7.5	4.9	6.4	13	
Togwotee Pass Trout Creek	Wyo.	9600 8400	2/27 2/28	84 21	26.3 4.5	24.4 6.8	25 . 9 6 . 6	27.8 6.0	4 5	
frout creek	Wyo.	0400	2/20	21	4.5	0.0	0.0	0.0	2	
LOWER YELLOWS TONE - I	POPO AGIE	RIVER								
Blue Ridge	Wyo.	9500	3/1	54	13.0	10.2	14.5	9.9	14	
Grannier Meadows	Wyo.	9000	3/1	53	13.5	11.1	16.6	11.5	17	
Hobbs Park	Wyo.	10000		54	17.0	13.9	19.7	18.6	5	
Mosquito R.S. Sawmill Glade	Wyo. Wyo.	9500 8500	2/28 3/1	30 38	7.7 7.2	7.0 6.5	7.9 8.0	7.3 6.2	10 14	
South Pass	Wyo.	9000	3/1	55	14.6	12.3	23.1	11.5	13	
			-							
LOWER YELLOWSTONE - (אוו כספפע									
TOWER TEPHOMOTONE - (MT OUTEV									
Beavers Mill	Wyo.	8900	-			7.5	5.8	7.2	5 5	
Owl Creek	Wyo.	8700		- 42	dir prop	2.3	5.5	5.0	5	

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						SNOW COVER MEASUREMENTS					······
		DRAINAGE BASIN			Date	1951 Snow	Water		Past	Record	Years
ŀ		and			of			: Water	Conte	nt (In.)	of
		SNOW COURSE	State	Elev.	Survey		(In.)	ACCUSED TO SECURE		Aver.	Record
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		LOWER YELLOWSTONE -	- OWL CREE	<u>K</u>							
				0000	2/1	20	0.1		- 0	5 .0	_
ı		Beavers Mill	Wyo.		3/4			7.5 2.3		7.2 5.0	5 5
ŀ		Owl Creek	Wyo.	0700	3/4	21	5.8	2.5	フ・フ	5.0	2
1		Average of 1954 Wat	er Conten	ıt							
		expressed as perc					15.2	155%	135%	125%	5
		•	J								
	So	ldier Park	Wyo.	8700	3/5	15	1.9	3.3	3.6	3.7	3
	TO	WER YELLOWSTONE - CH	DAGV LIONER	I CREEK	ON THE	POMDER	BIVER				
	TO	VER TELLOWSTONE - CI	RAZI WORLDI	A OTENTAL	014 11115	I OWDER	TLL V LIL				
	Mo:	rth Powder	Wyo.	8500	3/5	24	5.4	6.0	em erà	6.0	1
	110.			-,	-,-	·					
	NOI	RTH PLATTE ABOVE SET	MINOE RESI	ERVOIR							
				01 - 0	0 /05	20	((25 2	12 O	ہ
		bany*	Wyo.	9400		30	6.6		-	13.8	5 16
		ttle Creek	Wyo.	8200 10300	3/1	38 39		11.7 15.9		11.4	17
		meron Pass lumbine Lodge	Colo.	9300	3/4 3/1	45		19.2	27.7	18.8	18
		x Park*	Wyo.	9200	2/26	7	1.4	6.3	7.6	6.0	17
		rth Barrett Creek	Wyo.	9400	2/25	35		14.4	18.5	14.3	17
		rth Gate	Colo.	8500	3/1	20	3.5	5.0	7.5	5.8	<u>i</u>
		rth French Creek	Wyo.	10200	2/25	51		18.8	28.2	23.1	16
		d Battle	Wyo.	9800	3/1	56	-	20.2	35.6	25.7	17
		rk View	Colo.	9200	3/1	26	4.9	6.5	14.2	7.8	18
		an Park	Wyo.	8400	2/25	20	4.4	8.7	11.8	8.7	17
	_	ring Creek	Wyo.	9000	2/25	28	7.9	~~		17.0	4
		bber Spring	Wyo.	9000	3/1	40		13.4	23.1	14.7	16
	Wi:	llow Creek Pass*	Colo.	9500	3/1	33	7.0	9.2	20.4	10.4	16

^{*} Adjacent Basin

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WYOMING SNOW SURVEYS, MARCH 1, 1954

				SMO	W COVER	MEASIN	२ म्यामा ग ट		-
				1951		TILASUI		Record	
DRAINAGE BASIN			Date	Snow	Water				Years
and	a	777	of	-	Content			The state of the s	of
SNOW COURSE	State	Elev.	Survey	(In.)	(In.)	1953	1952	Aver.	Record
NORTH PLATTE - SWEETWA	ATER RIVE	R							
	* *	0.000	2 /2	٣.	2 2 C	77 7	7//	3.3 cv	3.0
Grannier Meadows Larson Creek	Wyo. Wyo.	8800 9000	3/1 2/24	53 18	13.5 4.2	11.1	16.6 9.5		17 5
South Pass	Wyo.	9040	3/1	55	14.6	12.3	16.8	11.3	14
	, - •	,,,,,	<i>></i> / –						
LARAMIE RIVER									
Albany	Wyo.	9400	2/27	30	6.6	13.0	15.1	13.8	5
Brooklyn Lake	Wyo.	10200	3/1	45	12.7	22.6	25.5	19.7	17
Deadman Hill	Colo.	10200	3/4	39	9.8	9.5	17.1	11.2	17
Fox Park	Wyo.	9200	2/26	7	1.4	6,3	7.6	6.0	17
Hairpin Turn	Wyo.	9500	3/1	25	6,0	11.1	13.6	9.3	16
Libby Lodge McIntyre	Wyo. Colo.	8700 9100	3/1 3/1	24 31	5.9 6.4	10.0	13.0 13.4	8.4 10.4	16 5
Pole Mountain #2 *	Wyo.	8700	3/1	7	1,1	5.6	6.2	4.2	17
Roach	Colo.	9800	3/4	45	12.6		22.2	15.1	13
		,	-, .	.,			•		
DOLE MOIDING TH									
POLE MOUNTAIN									
Pole Mountain	Wyo.	8700	3/1	7	1.1	5.6	6.2	4.2	17
		0,00	<i>></i> / –	•					_,
NORTH LARAMIE MOUNTAIN									
Box Elder	Wyo.	9000	2/23	19	3.9	9.5	5.2	4.9	4
LaBonte	Wyo.	8450	2/28	17	3.8	6.2	6.3	8.0	5
	v		•						
CHEYENNE RIVER									
Upper Spearfish	S.Dak.	6500	2/25	18	4.1	7.3	8.4	5.7	10
obser obserration	D #I/OIL #	3,00	-/-/		** 6 **	1 • 0	0 • 44	J•1	10
UPPER COLORADO - GREEN	DTITE								
OT I ELL COLORADO - GIGEN	TULVER								
Big Park	Wyo.	8700	3/2	51	15.2	14.2	20.3	18.8	3
Blind Bull	Wyo.	8750	3/4	83	28.4	25.0	29.2	29.4	6
Deadman Ranch* Dutch Joe	Wyo. Wyo.	6534 8700	3/4 2/24	34 23	10.4	11.5	11.9 9.4	10.1 7.9	18 2
East Rim Divide	Wyo.	7950	2/26	36	8.9	11.4	12.0	10.4	14
Gros Ventre	Wyo.	8750	2/25	41	10.0	9.2	10.9	11.5	6
Kendall R.S.	Wyo.	7900	2/24	29	6.6	12.8	10.3	10.6	12
Loomis Park	Wyo.	8500	2/28	50	16.8	16.9	17.5	15.4	12
Mulligan Park	Wyo.	8900	3/1	30 35	7.0	9.8	9.2	9.9	12
Poison Meadows	Wyo.	8500	3/2	75	25.3	20.1	25.8	24.6	6
* Adjacent Basin									

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INDEX TO WITHING SNOW COURSES Location																	
Name	Wyoming Number	Elev.	Sec. Lat.	Lor		Record Began	Measuring Dates ^a	Measured By b	Name	Wyoming Number	Elev.	Sec. Lat.	Twp.	Renge ng.	Record Began	Measuring Dates ^a	Measured By
		MISSOUR	I RIVER	DRAIN	AGE				LARAMIE RIVER	11,5500	NET HEAT	on Distin) don	COLLECTION	,47		
YELLOWSTONE	2002	2270	եր _օ րր		10°30°	1028	20216	,	Brooklyn Lake	3	10200	11	16n	79w	1936	2,3,և,5	1
Canyon Lake Camp Lodgepole Lupine Creek	10E3 10E4 9E1 10E1	7750 7850 8200 7300	44°34° 32 44°54°	56N	1002h1 106W 100371	1937 1940 1938	1,2,3,4,5 1,2,3,4,5 4,5 1,2,3,4,5	և և 1 2	Fox Park Libby Lodge #2 Hairpin Turn #2	11 35 36	9200 8700 9500	21 29 24	13N 16N 16N	78W 78W 79W	1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5	1 1
WIND RIVER									CROW CREEK								
Brooks Lake #3 Burroughs Creek Dinwoodle Dry Creek DuNoir	10F2 9F6 9F10 9F9 9F2	9200 8800 10000 9500 8750	23 15 9 34 27	75N 77N 77N 77N	110W 107W 105W 105W 108W	1939 1948 1948 1948 1940	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	և և և և և	Pole Mountain #2 OREEN RIVER	34	8700 COLORAI	35 DO RIVER	15N DRAI	72W NAGE	1936	2,3,և,5	1
Geyser Creek Little Warm Sheridan R.S. T-Cross Ranch Togwotse Pass	9F3 9FL 9F1 9F5 10F1	8500 9500 7500 8000 9600	12 2h 3 1 29	ГГИ ГЗИ ГГЛИ ГГЛИ	108W 108W 109W 107W 110W	1948 1948 1939 1940 1936	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4	կ 1 և 5	Dutch Joe Ranger Sta. Mulligan Park Kendall Ranger Station Loomis Park Snyder Basin Ranger Sta	23 24 25 26 27	8700 8900 7900 8500 8040	32 17 23 14 15	37N 35N 38N 37N 29N	104W 108W 110W 111W 114W	1936 1936 1936 1936 1937	և,5 3,և,5 3,և,5 3,և,5 1,5	1 1 1 1
POPO AGIE RIVER									Piney-LaBarge East Rim Divide	74 58	8820 7950	19 32	29N 37N	111W	1937 1936	4,5 3,4	1
Blue Pidge Hobbs Park	8G2 9G2	9500 10000	23 22	31N 2S	101W 3W	1939 1948	2,3,4,5 2,3,4,5	1 h			COLUMBI	LA RIVER	DRAI	NAGE			
Mosquito Park R.S. Sawmill Glade South Pass St. Lawrence R.S. Trout Creek BIG HORN RIVER	9G3 8G1 8G3 9F11 9G1	9500 8500 9000 9000 81100	23 3 13 26 5	2S 31N 30N 1N 2S	3W 101W 101W LW 2W	19h0 1939 1939 19h0 19h8	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1 1 1 4	SNAKE RIVER BASIN Above Jackson Lake Arizona Aster Creek Base Camp	1 2 3	6850 7700 6900	3 別271	46n 46n	113W 110°37' 113W	1919 1919 1947	2,3,4,5 2,3,4,5 2,3,4,5	5 5 5
	029	9000		1 201	3.000	2019	0.2.1.6	1	Coulter Creek Glade Creek	5	7600 7200	77008		110 ⁰ 33 ¹ 110 ⁰ 品 ¹	1919	2,3,4,5 2,3,4,5	2
Beavers Mill Owl Creek Tensleep R.S. Timber Creek Ranger Creek Wood River	9F8 8F1 7E3 9E2 7E1 9F7	8900 8700 8300 8800 8800 8000	6 36 30 25 32 28	43N 43N 49N 47N 53N 46N	102W 101W 86W 103W 88W 103W	1948 1948 1935 1948 1935 1939	2,3,4,5 2,3,4,5 4,5 4,5 4,5 2,3,4,5	4 1 1 1	Huckleberry Divide Lewis Lake Divide Moran Moran Bay Snake River Station	7 9 10 11 13	7300 7900 6800 6800 6780	32 山10131 8&17 1山 山1081	48n 45n 45n	115W 110°L0' 11LW 116W 110°L0'	1919 1919 1919 1919 1919	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	55555
MADISON RIVER									Jackson Lake to Heies								
Norris Basin Thumb Divide SHOSHONE RIVER	10E2 15	7500 7900	ηγ _ο 55₊ ΓΓοΩγι		10°42'	1936 1946	3,և 2,3,և,5	2,7 5	Afton Ranger Station Blackrock Bryan Flat	1 .2 3	6200 8600 6250	30 4 9	32N 44N 38N	118W 111W 115W	1936 1936 1936	1,2,3,4,5 2,4 1,2,3,4,5	1 5 1
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2	CCC Camp Cottonwood Lake	4	7500 7500	9	29N 31N	118W	1936 1936	1,2,3,4,5 3,4	1
East Entrance TONGUE RIVER	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2	Deadman Ranch Four Mile Meadows Oreys Boundary	6 8 9	6534 7770 5800	28 35 33	35N 45N 37N	116W 112W 118W	1936 1936 1936	1,2,3,4,5 2,4 1,2,3,4,5	4 5 1
Burgess R.S. Dome Lake Big Goose	Tel Tes Tes	7900 8800 7700	36 11 և	56n 53n 53n	89W 87W 86W	1950 1950 1935	3,4,5 3,4,5 4,5	4 4 1	Grover Park Divide Teton Pass #2 Togwotee Pass Turpin Meadows Yellowjacket	10 11 12 13 14	7500 8500 9600 6930 7675	27 2և 29 1և 33	33N 44N 44N 45N 42N	118W 118W 110W 112W 112W	1936 1936 1936 1936 1936	1,2,3,4,5 1,2,3,4 2,3,4 2,4 3,4,5	1 5 5 1
POWDER RIVER									Snow King Mountain	16	7600	4	LON	117W	1949	Semi.Mo.	ī
Red Fork Sour Dough Soldier Park Muddy Pass North Powder	7F1 6E1 7E6 7E7 7E8	7000 8500 8700 9700 8500	18 17 36 11 5	13N 19N 51N 48N 17N	85W 81W 85W 85W 85W	1936 1936 1950 1950 1951	4,5 4,5 3,4,5 3,4,5 3,4,5	կ 1 և և	Heise to American Falle Bechler Ranger Station Grassy Lake	2 8	6կoo 7265	6 孙oos	48N	111°03' 117W	1936 1940	1,2,3,4,5 1,2,3,4,5	2 5
SWEETWATER									BEAR RIVER								
Grannier Meadows Larsen Creek	8G4 57	9000 9000	19 12	30N 30N	100W 103W	1937 1949	2,3,4,5 2,3,4,5	14,6 11	Big Park Kelly Ranger Station	85 86	8700 8200	7 13	27N 26N	117W 118W	1951 1951	3, lı 3, lı	ļi Li
NORTH PLATTE																	
Bottle Creek Webber Spring Old Battle North French Creek North Rerrett Creek #2 Ryan Park #2 Spring Creek Albany LaBonte Boxelder Pearl	7 8 9 37 38 39 67 68 69 70	8200 9000 9800 10200 9100 8100 9000 9100 8450 9000 8700		14n 14n 14n 16n 16n 16n 15n 14n 27n 30n 12n	85W 85W 85W 80W 80W 81W 85W 78W 71W 75W	1936 1936 1936 1938 1936 1936 1949 1949 1950 1951	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. U 3. U h. S 5. U		est Serional Paian Servation	res the vice ark Service n Service Reclamat	snow vice ce tion				and May 1.

INDEX TO SOUTH DAKOTA SNOW COURSES

Name	South Dakota Number	Elev.	Lo Sec.	cation Twp.	Range	Record Began	Measuring Dates ^a	Measured By: b
CHEYENNE RIVER								
Upper Spearfish Upper Castle Deerfield	1 2 3	6500 6800 6010	21 24 23	3N 2N 1N	1E 1E 2E	1944 1944 1944	2,3,4 2,3,4 2,3,4	1 1 2

a. Numerals 2,3,4 refer to February 1, March 1, and April 1 respectively.

<sup>b. Numerals refer to Agency that secures the snow survey as follows:
l. U. S. Forest Service
2. U. S. Soil Conservation Service</sup>



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

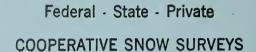
State Engineer of Tyoming

FLDERAL

- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

PRIVATE

Theatland Irrigation District



necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"